MITSUBISHI ELECTRIC CORPORATION
PUBLIC RELATIONS DIVISION
7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-8310 Japan

FOR IMMEDIATE RELEASE **No. 3338**

Customer Inquiries

LCD Marketing Dept.
Mitsubishi Electric Corporation

www.MitsubishiElectric.com/semiconductors/

Media Inquiries

Public Relations Division
Mitsubishi Electric Corporation

prd.gnews@nk.MitsubishiElectric.co.jp
www.MitsubishiElectric.com/news

Mitsubishi Electric to Launch 10.4-inch XGA Color TFT-LCD Module

Ideal for harsh outdoor environments and industrial applications

TOKYO, February 19, 2020 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that in late May it will begin sample sales of a new 10.4-inch XGA TFT-LCD module designed for use in harsh environments, including construction sites, heavy-duty vehicles, agricultural areas and industrial applications.

The new module will offer an unprecedented combination of advanced features, including high-resolution XGA (1,024 × 768 pixels), super-wide 176-degree horizontal/vertical viewing angles and high luminosity of 1,300 cd/m^2. It will also boast a number of attributes for which market demands are increasing, such as a high contrast ratio of 1,000:1, a versatile storage-temperature range of -40 to +80 degrees Celsius and high resistance to vibration.

Sample sales will commence on May 29 through Mitsubishi Electric offices worldwide.

Mitsubishi Electric's AA104XN11 color TFT-LCD module

Product Features

Although the wide-screen format is gradually being adopted for industrial displays, the 4:3 format continues to be used widely due to its compatibility as a retro-fit design. Nevertheless, needs are growing for high-resolution products capable of displaying large amounts of information and withstanding increasingly harsh environmental conditions. In response, Mitsubishi Electric continues upgrade its TFT-LCD lineup with models

offering improved performance, including the following features in the newly announced AA104XN11 model:

1) Wide storage-temperature range and strong resistance to vibration

- Optimized mechanical design and rugged components enable storage in extreme temperatures ranging from -40 to +80 degrees Celsius.
- Optimized mechanical design achieves high vibration resistance of 6.8Gs (seven times greater than the 1.0G rating of existing Mitsubishi Electric AA series products) to withstand compression mounting between the front and the back of LCD frame or 1.5G resistance for mounting from the side.

2) High resolution, super-wide viewing angles and high luminosity suitable for diverse instruments and installations

- High-resolution (XGA) screen handles dense text and images.
- Super-wide viewing angle of 176 degrees, both horizontally and vertically, ensures excellent visibility in a wide range of installation scenarios.
- High luminosity of 1,300 cd/m^2 and a high contrast ratio of 1,000:1 ensure excellent visibility in bright environments. Dimming ratio from 1 to 100 percent assures suitable visibility for any level of ambient brightness.
- Newly designed TFT panel improves NTSC color gamut by 70 percent over that of previous model (AA104XG) for vibrant graphics.

Sales Schedule

Product	Size	Resolution	Model	LED driver	Sample Shipments
TFT-LCD Module	10.4-inch	XGA	AA104XN01	Yes	May 29, 2020
			AA104XN11	No	

Revised Lineup of High-vibration Resistance Products

Display	Resolution	Model
7.0-inch	WXGA	AA070TA01/11
10.4-inch	XGA	AA104XN01/11
12.1-inch	WXGA	AA121TJ01/11

Specifications

Item	AA104XN01	AA104XN11
Display size (resolution)	10.4-inch XGA	
Display area (mm)	211.2 (H) × 158.4 (V)	
Pixels	1,024 (H) × 768 (V)	
Pixel configuration	RGB stripe	
Pixel pitch (mm)	0.20625 (H) × 0.20625 (V)	
Contrast ratio	1,000:1	
Luminance (cd/m^2)	1,300	
View angles (°) (U/D), (L/R)	88/88, 88/88	
Colors	262k (6bit/color) / 16.77M (8bit/color)	
Color gamut (NTSC; %)	70	
LED driver	Implemented	Not implemented
Typical backlight lifetime	100,000 hours	
Electrical interface	LVDS 6/8-bit	
Dimensions (mm)	230.0 × 180.2 × 9.5	
Operating temperatures (°C)	-30 to +80	
Storage temperatures (°C)	-40 to +80	
Vibration (non-operation; G [acceleration])	6.8	

Environmental Awareness

These models are compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU and (EU) 2015/863.

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About Mitsubishi Electric Corporation

With nearly 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded a revenue of 4,519.9 billion yen (US$ 40.7 billion*) in the fiscal year ended March 31, 2019. For more information visit:
www.MitsubishiElectric.com

*At an exchange rate of 111 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2019